



Indiana Department of Environmental Management
Office of Water Quality
Wetlands Section

Publication Date:
September 19, 2007

IDEM ID Number:
2007-497-06-EME-A

Closing Date:
October 10, 2007

Corps of Engineers ID Number:
Not Available

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

-
- | | | | |
|--------------------------------|---|------------------|--|
| 1. Applicant: | Mr. James Fehsenfeld
8001 Springmill Rd.
Indianapolis, IN 46260 | 2. Agent: | Mr. John Richardson
J.F. New & Associates
708 Roosevelt Rd.
Walkerton, IN 46574 |
| 3. Project location: | SW 1/4 of Section 36, Township 18 North, Range 2 East, Zionsville USGS Quadrangle Map
Project is located at the SE corner of Templin Road (CR 550 S) and Willow Rd, near Zionsville, Boone Co. | | |
| 4. Affected waterbody: | Little Eagle Creek | | |
| 5. Project Description: | The applicant proposes to stabilize 400' of streambank adjacent to a proposed residential structure with boulders projecting into the stream up to two feet. Areas between the boulders are proposed to be filled with soil and planted with native vegetation. Areas above the Ordinary High Water Mark (OHWM) above the boulders are proposed to be graded to a 2:1 slope, seeded with native species, and covered with erosion control blanket. The applicant also proposes to construct a stream barb in the stream made of boulders; 2-3' boulders are proposed to extend approximately 10' into the stream (~1/3 of the width). | | |

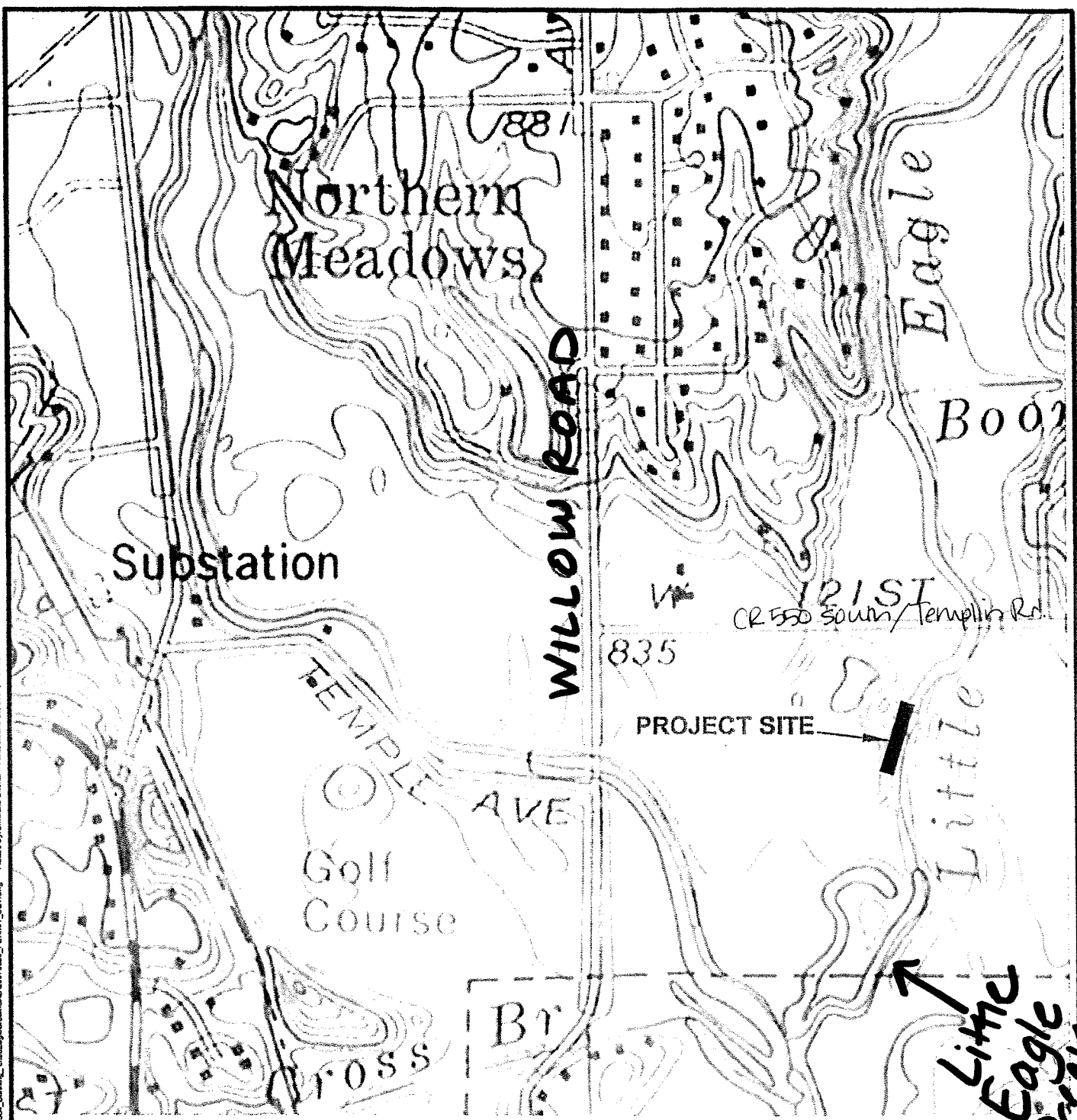
Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions? Additional information may be obtained from Ms. Liz Elverson, Project Manager, at 317-233-2482. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251
FAX: 317/232-8406

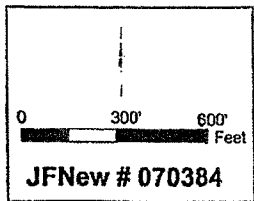
Location: S:\Information\PROJECTS\07070384_Banning_LittleEagleCreek\CAO\20070620_PERMIT_SET.mxd Plotted: June 20, 2007 9:03:59 AM



NOTES:

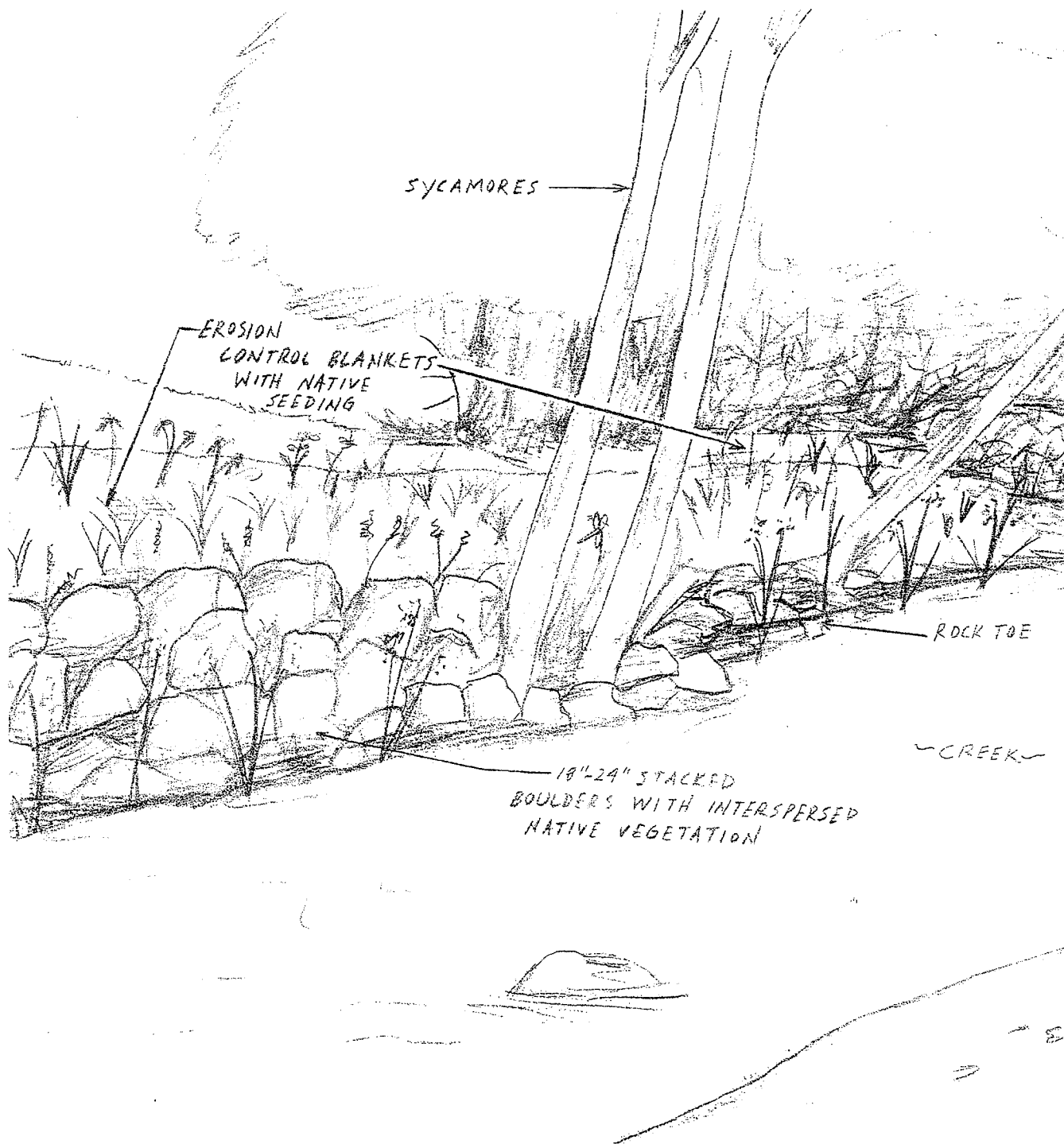
- 1.) Map obtained from U.S. Department of the Interior Geological Survey, 7.5 Minute Series (Topographic).

Figure 2: SITE LOCATION MAP
Bank Stabilization Little Eagle Creek
Banning Engineering
Boone County, Indiana



 **JFNew**
708 Roosevelt Road, Walkerton, IN 46574
Phone 574-586-3400 / Fax 574-586-3446
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COD



See Figure 8 for Planting Plan

Figure 4: Proposed Streambank Concept
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Location: S:\Water\PROJECTS\070384_Banning_LittleEagleCreek\070384_PERMIT_SET.dwg Plotted By: Christine Dittmer Plotted: June 21, 2007 4:24:53 PM

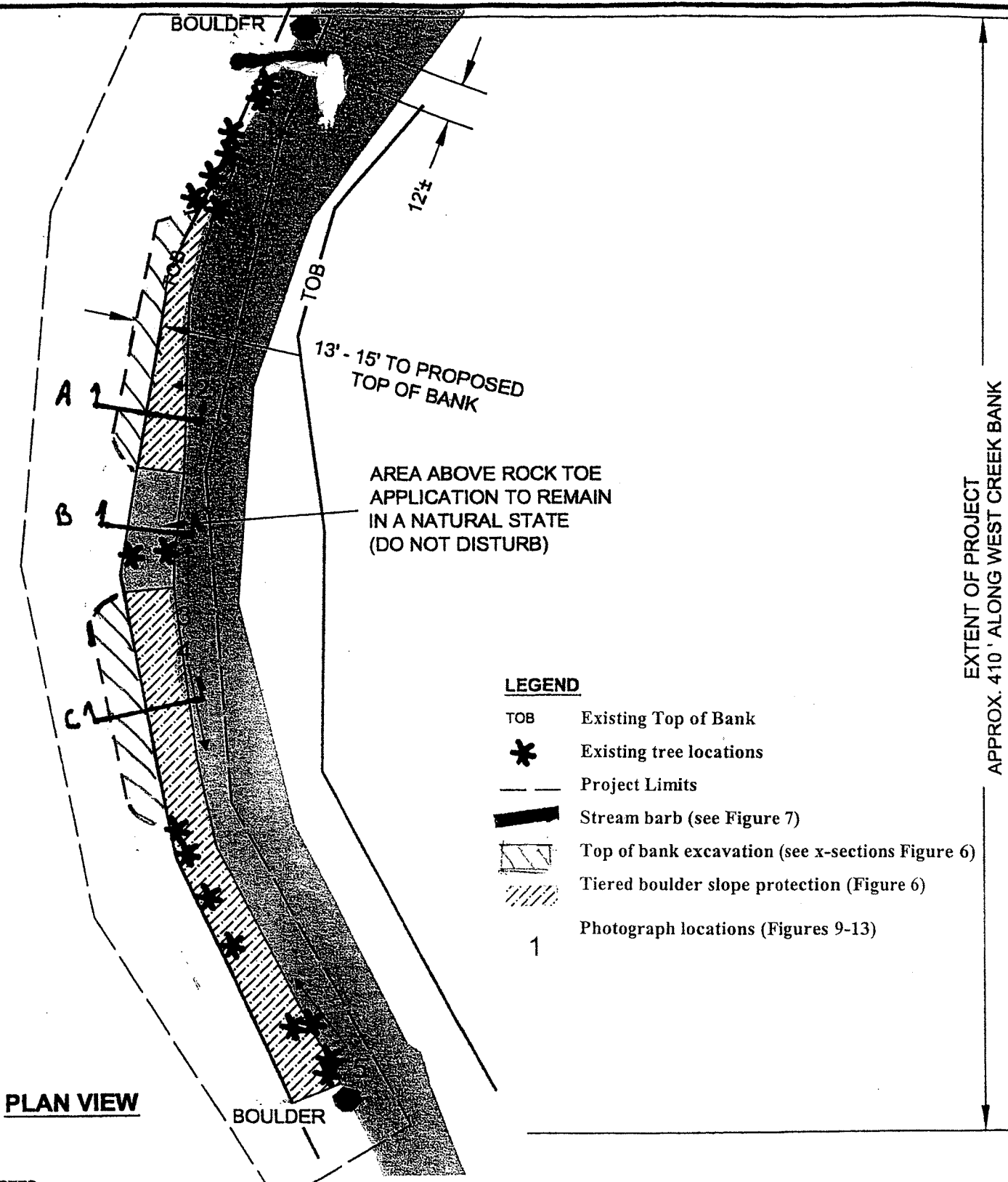
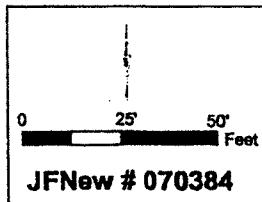
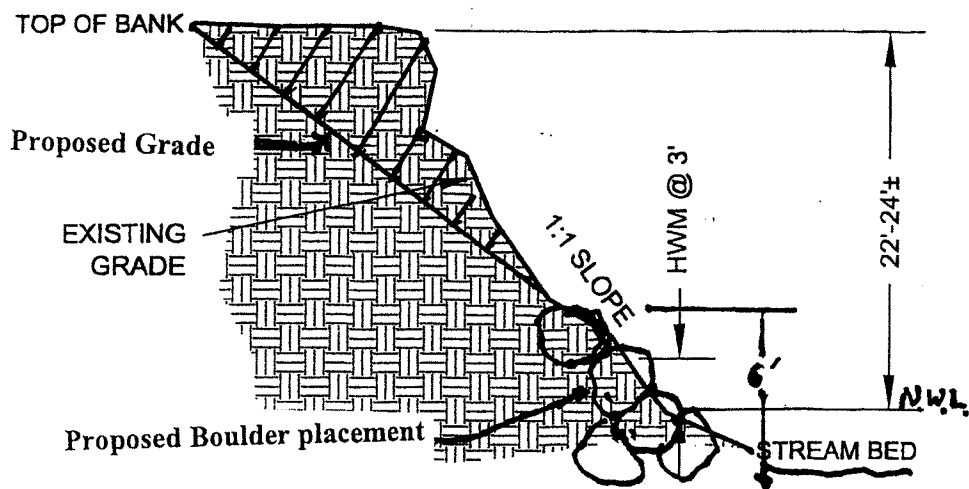


Figure 5: Plan View
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Banning Engineering
Boone County, Indiana

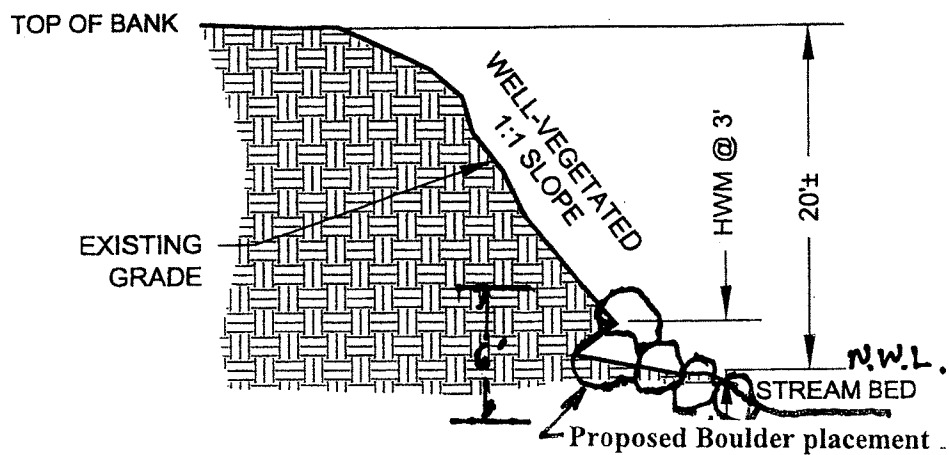


JFNew

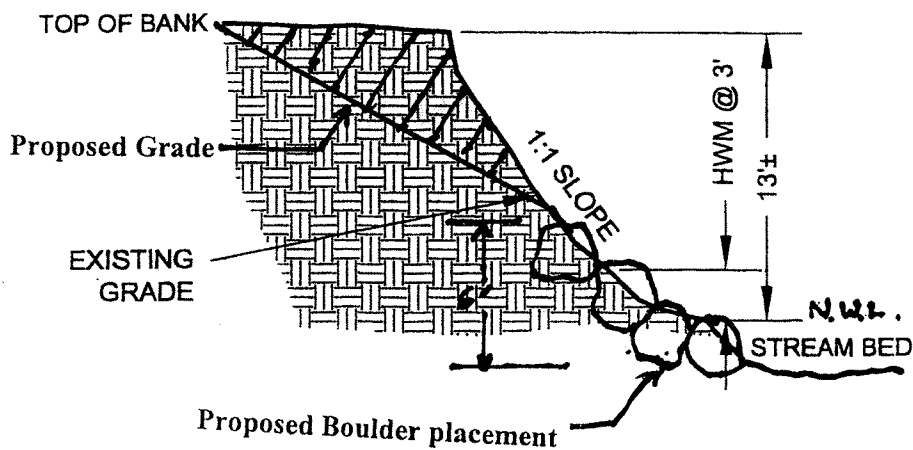
706 Roosevelt Road, Wellesboro, NH 03074
Phone 574-596-3400 / Fax 574-596-3448
www.jfnew.com



SECTION A



SECTION B



SECTION C

Figure 6: Cross Sections

**Bank Stabilization Little Eagle Creek
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Boone County, Indiana**



Not to scale

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WASHINGTON
STANDARD
DRAWING

BIOENGINEERING BANK PROTECTION

BANK BARB

STANDARD DRAWING NO.

BIO-0010

APPROVED BY: LAJ

DRAWN BY: KLY

ISSUE DATE: 2/99

ROCK GRADATION

$D_{100} =$ 8 min (in) 11.9 max (in)

$D_{75} =$ 12 min (in) 15.9 max (in)

$D_{50} =$ 16 min (in) 23.9 max (in)

$D_{min} =$ 24 min (in) 36 max (in)

DIMENSIONS

$\angle =$ 30 (deg)

$L =$ 16 (ft)

$L_E =$ 10 (ft)

K (key) = 4 (ft)

$W_K =$ 3 (ft)

$W =$ 3 (ft)

$B_W =$ 3 (ft)

$H =$ 4 (ft)

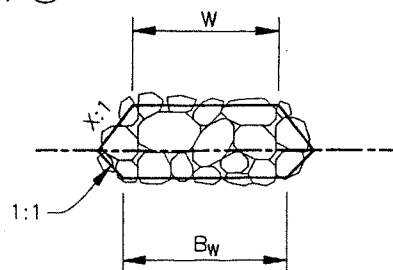
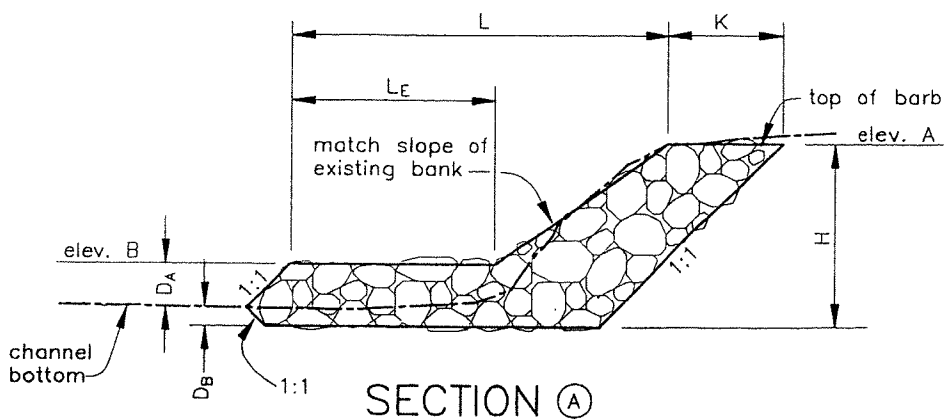
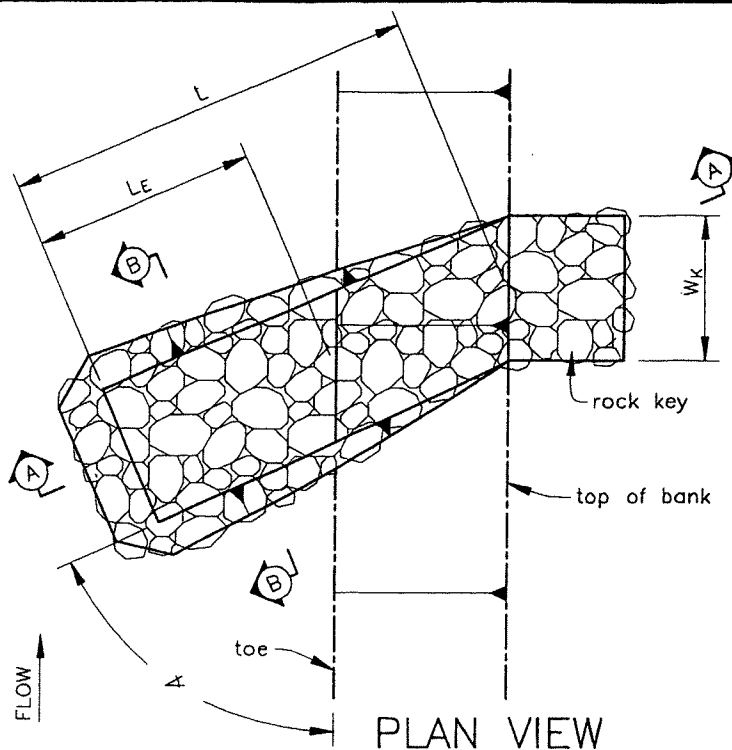
$D_A =$ 1.5 (ft)

$D_B =$ 1-2 (ft)

$X =$ 2

elev. A = 100

elev. B = 97.5



GENERAL NOTES

1. This standard drawing requires supporting technical documentation prior to use and must be adapted to the specific site.

drawing not to scale

Figure 7: Stream Barb Details
Bank Stabilization Little Eagle Creek
Banning Engineering
Boone County, Indiana



Not to scale

JFNew # 07-03-84



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Low-Profile Prairie Seed Mix

<u>Botanical Name</u>	<u>Common Name</u>	<u>PLS</u> <u>Ounces/Acre</u>
Permanent Grasses:		
<i>Bouteloua curtipendula</i>	Side-Oats Gramma	10.00
<i>Carex bicknellii</i> / <i>Carex brevior</i>	Prairie Sedge Mix	1.00
<i>Elymus canadensis</i>	Canada Wild Rye	16.00
<i>Koeleria pyramidata</i>	June Grass	2.00
<i>Panicum virgatum</i>	Switch Grass	1.00
<i>Schizachyrium scoparium</i>	Little Bluestem	28.00
<i>Sporobolus heterolepis</i>	Prairie Dropseed	3.00
Total		61.00
Temporary Cover:		
<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multiflorum</i>	Annual Rye	120.00
Total		480.00
Forbs:		
<i>Amorpha canescens</i>	Lead Plant	1.00
<i>Anemone cylindrica</i>	Thimbleweed	0.50
<i>Aquilegia canadensis</i>	Wild Columbine	0.50
<i>Asclepias tuberosa</i>	Butterfly Milkweed	2.00
<i>Aster ericoides</i>	Heath Aster	0.25
<i>Aster laevis</i>	Smooth Blue Aster	0.75
<i>Aster novae-angliae</i>	New England Aster	0.25
<i>Baptisia lactea</i>	White Wild Indigo	1.00
<i>Chamaecrista fasciculata</i>	Partridge Pea	9.00
<i>Coreopsis lanceolata</i>	Sand Coreopsis	1.50
<i>Coreopsis palmata</i>	Prairie Coreopsis	1.00
<i>Dalea purpurea</i>	Purple Prairie Clover	1.50
<i>Echinacea purpurea</i>	Broad-Leaved Purple Coneflower	3.50
<i>Eryngium yuccifolium</i>	Rattlesnake Master	2.50
<i>Kuhnia eupatorioides</i> v. <i>corymbulosa</i>	False Bone-Set	0.50
<i>Lespedeza capitata</i>	Round-Head Bush Clover	2.00
<i>Liatris aspera</i>	Rough Blazing Star	0.50
<i>Lupinus perennis</i>	Wild Lupine	2.00
<i>Monarda fistulosa</i>	Wild Bergamot	0.50
<i>Parthenium integrifolium</i>	Wild Quinine	1.00
<i>Penstemon digitalis</i>	Foxglove Beard Tongue	0.50
<i>Petalostemum candidum</i>	White Prairie Clover	1.50
<i>Physostegia virginiana</i>	Obedient Plant	0.25
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	1.00
<i>Ratibida pinnata</i>	Yellow Coneflower	3.00
<i>Rudbeckia hirta</i>	Black-Eyed Susan	2.00
<i>Rudbeckia subtomentosa</i>	Sweet Black-Eyed Susan	1.00
<i>Silphium integrifolium</i>	Rosin Weed	0.50
<i>Silphium terebinthinaceum</i>	Prairie Dock	2.00
<i>Solidago nemoralis</i>	Old-Field Goldenrod	0.25
<i>Solidago rigida</i>	Stiff Goldenrod	1.00
<i>Tradescantia ohimensis</i>	Common Spiderwort	0.75
<i>Vernonia gigantea</i>	Smooth Tall Ironweed	1.75
<i>Veronicastrum virginianum</i>	Culver's Root	0.25
Total		49.75
Annual/Perennial Forbs Mix		32.00

Shrubs and Plants for Tiered Boulder Application

<u>Botanical Name</u>	<u>Common Name</u>
<i>Cephalanthus occidentalis</i>	Button bush
<i>Cornus Amomum</i>	Silky dogwood
<i>Iris virginica</i>	Blue flag Iris
<i>Lobelia cardinalis</i>	Cardinal flower
<i>Lobelia siphilitica</i>	Blue lobelia
<i>Sambucus canadensis</i>	Elderberry
<i>Viburnum lentago</i>	Nannyberry

Figure 8: Planting Plan Details

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Banning Engineering
Boone County, Indiana**

